

Title (en)  
OFDM diversity transmission

Title (de)  
OFDM Diversity-Übertragung

Title (fr)  
Transmission OFDM en diversité

Publication  
**EP 1148659 B1 20050727 (EN)**

Application  
**EP 00108459 A 20000418**

Priority  
EP 00108459 A 20000418

Abstract (en)  
[origin: EP1148659A1] In an OFDM transmission a transmission diversity technique is used without orthogonal signalling. The phases of the subcarriers received at the different antenna means (2, 3) are compared by different techniques and then the phases of the signals for different antenna means (2, 3) are adjusted (19) for a subsequent transmission over the OFDM interface. The phase (and optionally amplitude) adjustment is calculated in only one (transmitting) side and no orthogonal signalling is required. The number of antenna means (2, 3) can be increased as much as necessary to get a sharper beam. The negative effects of fading and interference can be reduced so that on the same time a down link transmission power can be reduced. <IMAGE>

IPC 1-7  
**H04B 7/06**; **H04L 27/26**

IPC 8 full level  
**H04J 11/00** (2006.01); **H04B 7/06** (2006.01); **H04L 7/00** (2006.01); **H04L 27/26** (2006.01); **H04B 7/04** (2017.01); **H04B 7/08** (2006.01)

CPC (source: EP US)  
**H04L 27/2626** (2013.01 - EP US); **H04B 7/04** (2013.01 - EP US); **H04B 7/0671** (2013.01 - EP US); **H04B 7/084** (2013.01 - EP US)

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**EP 00108459 A 20000418**; DE 60021524 T 20000418; ES 00108459 T 20000418; JP 2001120125 A 20010418; JP 2011177446 A 20110815; JP 2013101091 A 20130513; JP 2013101092 A 20130513; JP 2015095524 A 20150508; US 201314010032 A 20130826; US 83663001 A 20010417